



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/625,589

07/24/2003

Anthony D. Studer

200209051-1

7744

22879

7590

10/07/2004

HEWLETT PACKARD COMPANY
P O BOX 272400, 3404 E. HARMONY ROAD
INTELLECTUAL PROPERTY ADMINISTRATION
FORT COLLINS, CO 80527-2400

EXAMINER

VO, ANH T N

ART UNIT

PAPER NUMBER

2861

DATE MAILED: 10/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/625,589

Applicant(s)

STUDER ET AL.

Examiner

Anh t.n Vo

Art Unit

2861

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-24 is/are allowed.
- 6) ☒ Claim(s) 25-27 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/24/2003</u> . | 6) <input type="checkbox"/> Other: ____. |

Art Unit: 2861

DETAILED ACTION

Information Disclosure Statement

The references cited on PTO 1449 have been considered.

Specification

The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

CLAIM REJECTIONS

Claim Rejections - 35 U.S.C. § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 25-27 are rejected under 35 U.S.C. 102 (b) as being anticipated by Kasugayama et al. (US 4,419,677).

Kasugayama et al discloses in Figures 3 and 4 an ink container comprising steps of:

- providing a chamber (33) containing the liquid (ink);
- expunging at least some of the liquid (ink) from the chamber (33) through an

Art Unit: 2861

opening (39) and

- sucking gas (air from outside of the element 33 that enters into the element 33 through an element 35) into the chamber (33) in a manner that is impermeable to liquid to equalize the pressure in the chamber with the ambient pressure exterior of the chamber, to prevent back-pressure from developing in the chamber;
- changing the altitude and/or temperature at which the vessel is maintained, and equalizing the pressure in the chamber with the ambient pressure exterior of the chamber by sucking gas into, or exhausting gas out of, the chamber in a manner that is impermeable to liquid, to equalize the pressure in the chamber (column 4, lines 3-15); and
- (a) exhausting gas if the temperature and/or altitude at which the vessel is maintained increases, or
- (b) sucking gas if the temperature and/or altitude at which the vessel is maintained decreases.

Claims 25-27 are rejected under 35 U.S.C. 102 (b) as being anticipated by Sato et al. (US 5,801,737).

Sato et al discloses in Figures 21-25 an ink container with internal air pressure adjustment comprising steps of:

- providing a chamber (1) containing the liquid (7);
- expunging at least some of the liquid (7) from the chamber (1) through an opening (2) and
- sucking gas (air from outside of the element 1 that enters into the element 1 through an element 6) into the chamber (1) in a manner that is impermeable to liquid to equalize the pressure in the chamber with the ambient pressure exterior of the chamber, to prevent back-pressure from developing in the chamber;
- changing the altitude and/or temperature at which the vessel is maintained, and

Art Unit: 2861

equalizing the pressure in the chamber with the ambient pressure exterior of the chamber by sucking gas into, or exhausting gas out of, the chamber in a manner that is impermeable to liquid, to equalize the pressure in the chamber (Figures 21-22); and

(a) exhausting gas if the temperature and/or altitude at which the vessel is maintained increases (Figure 21), or

(b) sucking gas if the temperature and/or altitude at which the vessel is maintained decreases (Figure 22).

Claims 25-27 are rejected under 35 U.S.C. 102 (b) as being anticipated by Amberntsson et al. (US Pat. 3,953,862).

Amberntsson et al discloses in Figures 2-3 an ink container with internal air pressure adjustment comprising steps of:

- providing a chamber (12) containing the liquid (24);
- expunging at least some of the liquid (24) from the chamber (12) through an opening (25) and
- sucking gas (air from outside of the element 12 that enters into the element 12 through an element 34 or element 35) into the chamber (12) in a manner that is impermeable to liquid to equalize the pressure in the chamber with the ambient pressure exterior of the chamber, to prevent back-pressure from developing in the chamber (column 2, lines 2-45);
- changing the altitude and/or temperature at which the vessel is maintained, and equalizing the pressure in the chamber with the ambient pressure exterior of the chamber by sucking gas into, or exhausting gas out of, the chamber in a manner that is impermeable to liquid, to equalize the pressure in the chamber (Figures 2-3); and
- (a) exhausting gas if the temperature and/or altitude at which the vessel is maintained increases (Figures 2-3), or
- (b) sucking gas if the temperature and/or altitude at which the vessel is maintained decreases (Figures 2-3).

Art Unit: 2861

Citation of Pertinent Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. These prior art references (US Pat. 4,429,320; US Pat. 5,425,478; US Pat. 6,676,253) cited in the PTO 892 form show an ink cartridge which is deemed to be relevant to the present invention. These references should be reviewed.

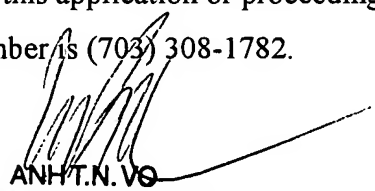
Allowable Subject Matter

Claims 1-24 are allowable. These claims would be allowable because none of the prior art references of record discloses a liquid supply vessel or an ink cartridge comprising a liquid dispensing apparatus having an intake and an outtake, wherein a valve is positioned between the intake and the outtake, and wherein the outtake is aligned with a opening of a floor of a chamber, a supply line having an inlet adjacent the floor and an outlet in fluid communication with the intake, wherein the supply line extends from the floor and is substantially housed within the chamber in the combination as claimed.

CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Anh Vo. whose telephone number is (703) 305-8194. The examiner can normally be reached on Tuesday to Friday from 8:00 A.M. to 6:00 P.M. The fax number of this Group 2861 is (703) 305-3431 or 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1782.


ANH T. N. VO
PRIMARY EXAMINER

September 25, 2004